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Evolutionary Acquisition and Spiral Development

***ESC/AE
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Evolutionary Acquisition Definitions

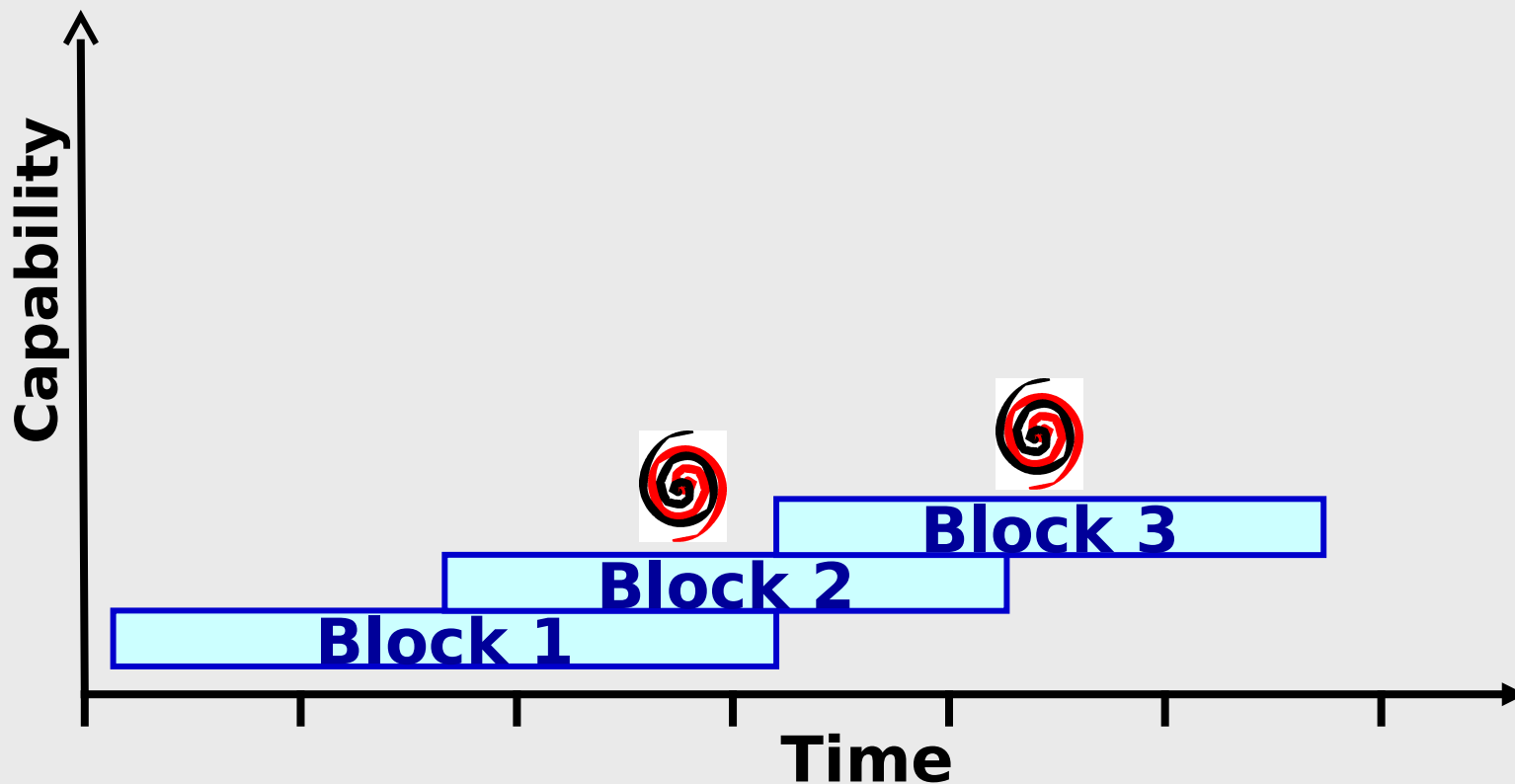
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- ♦ Evolutionary Acquisition - acquisition strategy used to develop and field a capability which meets increasing requirements in successive increments.
- ♦ Increment - distinct set of planned activities supporting the goal of delivering an operational capability to the user.
- ♦ Block - the method for delivering a core capability with increasing increments of capability



EA Weapon System Model

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Spiral Development

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A cyclic approach for incrementally
increasing a
system's definition and functionality
while decreasing risk





Spiral Development

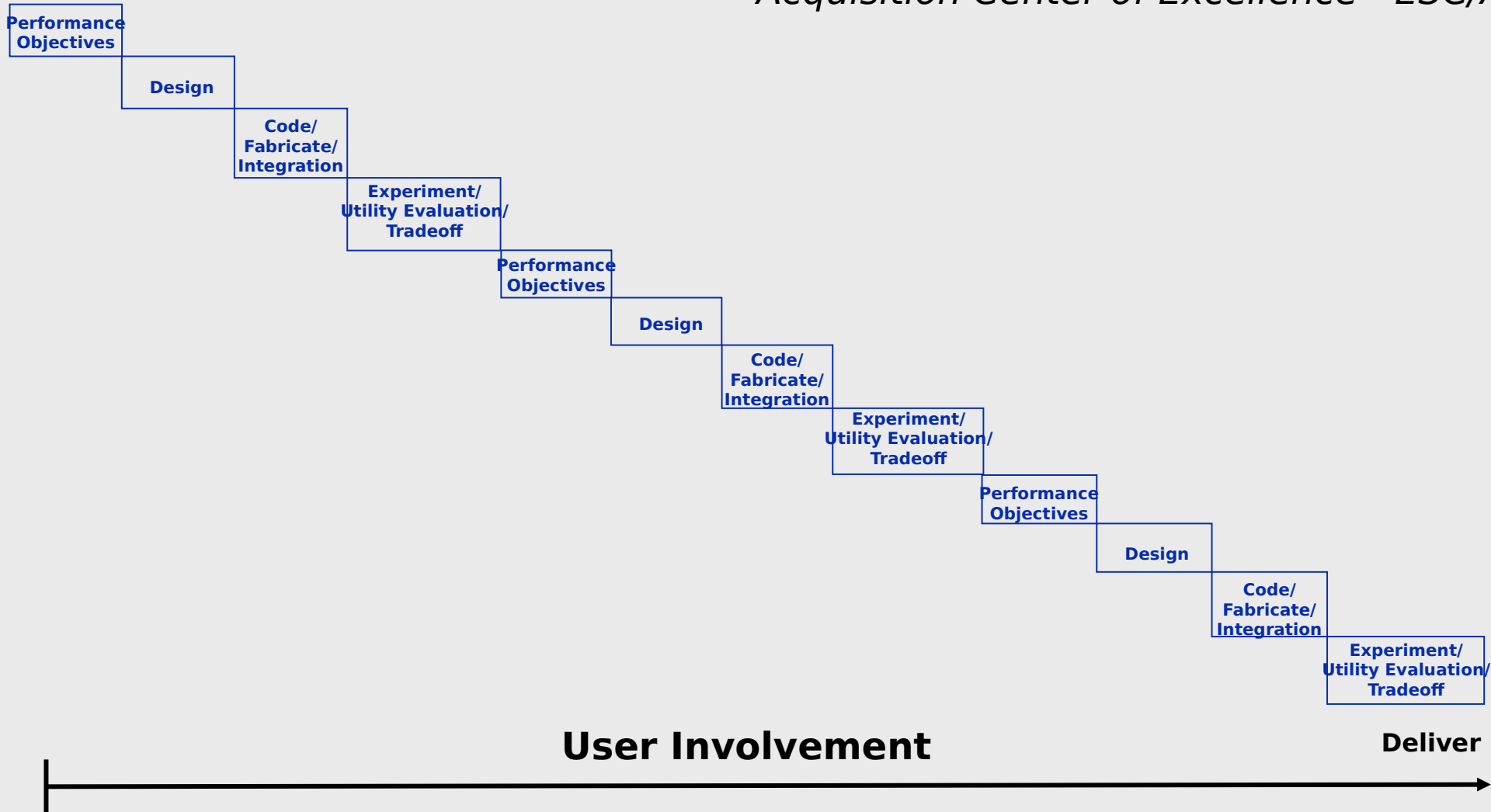
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- ♦ Characteristics of a spiral development process
 - ♦ Technological advances are used in parallel with concept refinement
 - ♦ Continuous user involvement and feedback
 - ♦ A set of sub-processes such as requirements development and decision processes



Spiral Development

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Making Spiral Development Work

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- ♦ Continuous operational user involvement to assure the utility of the system as requirements evolve and to make the decisions to field
- ♦ Testing is an integral and continuous part of spiral development
- ♦ Spiral cycles are iterated throughout the life of a system to provide opportunities to respond to user feedback and to introduce new operational concepts and new technology



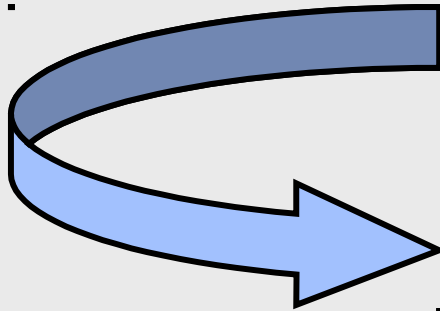
Evolutionary Acquisition Using Spiral Development

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**An Evolutionary
Acquisition
Strategy**

+

**A Spiral
Development
Process**



**Deliver the product
with the most
capability in the
shortest timeframe**